



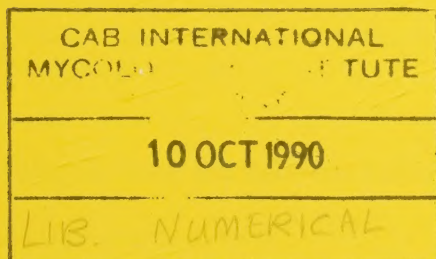
ISSN 0009-9716

CMI Descriptions of Pathogenic Fungi and Bacteria

List of sets 1-100

Index of species 1-1000

1990





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List of sets, index of species, and list of accepted names for some obsolete species names in CMI Descriptions of Pathogenic Fungi and Bacteria Sets 1–100, Nos. 1–1000, issued January 1964–March 1990

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Each set contains ten descriptions of fungi or bacteria. The number accompanying each species name in the index and in the list of accepted species is CMI Description Sheet Number. The index and the list of accepted names include species names as well as names of anamorphs and teleomorphs but not the synonyms cited in the descriptions. Names of conidial states (anamorphs) are given in italics in the index and in the list of accepted names. All are accepted names in the index except when the name is an unaccepted nomenclatural synonym it is followed by the currently accepted name preceded by the = sign in brackets. Cross references are also provided in the index to the newly accepted names to names in descriptions and their number in brackets.

CMI Descriptions of Pathogenic Fungi and Bacteria; Index 1–1000

List of sets, issued January 1964 to March 1990

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Book reviews

Anthony H. Rose and J. S. Harrison, Editors, 1987. The Yeasts, Second Edition. Volume 1. Biology of Yeasts. pp. xi, 423. £38.50, \$69.50. Volume 2, Yeasts and the Environment. pp. xv, 309. £33.00, \$59.55. Price for the set: £61.00, \$110.00

Because of the rapid development of information about all phases of yeast biology, physiology, genetics and other areas, a second edition of the authors' book on yeasts was thought necessary. The editors have brought together chapters on various phases of the subject by well known authorities on various aspects of 'The Yeasts'. The first volume deals with classification, aspects of taxonomy, the habitat, pathogenicity, and the biology of the cell cycle. In the second volume are considered the responses of yeast to their environment, including the chemical environment, temperature relations, the effect of radiation, type of culture, killer yeasts, cell aggregation, and adhesion to surfaces.

Following a brief introduction by A. H. Rose and J. S. Harrison, N. J. W. Kreger-van Rij describes the classification of yeasts including the methods for study for classification purposes; C. P. Kurtzman and H. J. Phaff consider various aspects of molecular taxonomy; J. P. van der Walt discusses the application of the type method to the classification of yeasts; H. J. Phaff and W. T. Starmer consider yeasts associated with plants, insects, and soil; A. W. Hagler and D. G. Ahearn discuss the ecology of aquatic yeasts including yeasts in polluted waters; R. Hurley, J. de Louvois and A. Mulhall describe yeasts as human and animal pathogens; and A. E. Wheals considers the biology of the cell cycle in yeasts, to which chapter are added two appendices, the first of which lists cell cycle mutants of *Saccharomyces cerevisiae*, and the second gives similar information for mutants of *Schizosaccharomyces pombe*.

The second volume, 'Yeasts and the Environment', opens with a brief introduction by Rose and Harrison, followed by a discussion by A. H. Rose of responses of yeasts to the chemical environment; a chapter by K. G. Watson on temperature relations,

followed by chapters by A. P. James and A. Nasim, who consider the effects of radiation on yeasts; A. Fiechter, O. Kappeli and F. Meussdoerffer, who consider batch and continuous culture techniques; T. W. Young, who considers killer yeasts; G. B. Calleja, who describes cell aggregation; and L. J. Douglas, who discusses adhesion to surfaces by yeast cells.

While the first volume is of a general nature, with materials of interest to all workers with yeasts, the second volume may be of greater interest to those people preparing for, and working in, industrial processes. Two additional volumes dealing with additional aspects of the yeast cell are said to be in the planning stage.

In the introduction to Volume 1 it is stated that 'The generic names, with the abbreviations she (N. J. W. Kreger-van Rij) has allocated to them and which are used throughout this treatise, are listed at the beginning of each volume in the Second Edition.' Unfortunately, the promised list did not appear in either volume seen by this reviewer.

In both volumes each chapter is concluded with its own extensive bibliography. Each volume is concluded with a subject and an author index.

These volumes should be most useful to all people working with yeasts in the classroom, laboratory, and clinic.

Wm. Bridge Cooke, 1135 Wilshire Ct.,
Cincinnati, OH 45230, USA

Allen I. Laskin, Editor, 1987. Advances in Applied Microbiology. Vol. 32. Academic Press, Orlando, Florida. pp. vi, 223. \$49.00.

Five areas of research are reviewed in this volume, all dealing with bacteriological processes. They include 'The microbial corrosion of metals'; 'Economics of the bioconversion of biomass to methane and other vendable products'; 'The microbial production of 2-3-butanediol'; 'Microbial sucrose phosphorylase fermentation process, properties, and biotechnical

applications'; and 'Antitumor anthracyclines produced by *Streptomyces peuceitius*'.

Since metal corrosion, the methods and economics of the conversion of wastes to marketable products, and aspects of the production of antibiotics are of at least peripheral interest to the readers of this journal, several of these chapters may become of interest.

Wm. Bridge Cooke, 1135 Wilshire Ct.,
Cincinnati, OH 45230, USA

Jeremy J. Burdon, 1987. *Diseases and Plant Population Biology*. Cambridge Studies in Ecology. Cambridge University Press, Cambridge, England, U.K. pp. viii, 208. Hard cover £27.50, \$49.50; paper back £12.50, \$19.95.

The study of pathogens and the population biology of plants is broken down into such areas as the effects of pathogens on individual plants, the development of disease in plant populations, the genetic basis of disease resistance in plants, the environmental modification of host-pathogen interactions, the effect of pathogens on the size and on the genetic structure of plant populations, and the effect of host plants on the population genetic structure of pathogens.

Throughout the study the basic patterns of the relationships between pathogens and host plants are drawn from studies throughout the area of plant pathology, that is, host monoculture rather than wild aggregations of a variety of types of plants. These basic observations are correlated with the various factors of pathogen activity, host life cycle, physiological consequences of disease, development of epidemics, the genetic basis of disease resistance and pathogenicity, and a variety of environmental effects.

In a final chapter suggestions are given for further study. A glossary of plant pathological terminology is given, together with an extensive bibliography, and an index.

This book should be available to all plant ecologists, especially those working with wild populations. The area covered by the book has been neglected by ecologists, who usually assume that the

populations with which they are working are healthy. Plant pathologists will also find it of interest.

Wm. Bridge Cooke, 1135 Wilshire Ct.,
Cincinnati, OH 45230, USA

Reinhard Agerer, Editor, 1987. *Colour Atlas of Mycorrhizae with Glossary*. Einhorn Verlag Eduard Dietenberger G.m.b.H., Postfach 1280, D 7070 Schwäbisch Gmünd, West Germany. Part 1, 17 pages with 10 color and 20 black and white plates. Plates DM 29.80 plus postage, binder DM 5.00.

In the first part of a projected ten-part series, the mycorrhizae of ten species of agaricoid fungi are illustrated macroscopically and microscopically. The aim of this work is to make available to those working with ectomycorrhizae standardized colors and morphology of ectomycorrhizae of identified fungi. Techniques for isolation of mycorrhizae from the soil, and color photography, are discussed.

Each fungal species is presented on four pages. On the first page are four color photographs of mycorrhizae at different magnifications. On the second page are descriptions of the color photographs and of the six or eight halftone photomicrographs, sources of color prints of fruit bodies of these fungi, and notes on the ecology of the fruit bodies with references.

A dichotomous key for the identification of the mycorrhiza is presented with directions for its use in relation to materials presented here. In addition, a set of synoptic tables is presented. A glossary and a bibliography complete the text.

It is planned that during the coming years ten parts will have been issued and between 200 and 300 species of fungi will be covered. The material comes in a looseleaf binder so that as updated pages are received the user can replace the older pages with the new, as well as adding additional material.

For all students of ectomycorrhizae this material can be useful, especially in regions where the concerned fungi are found.

Wm. Bridge Cooke, 1135 Wilshire Ct.,
Cincinnati, OH 45230, USA

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